Power Transducer Series L-UNIT

PT TRANSDUCER

(self-powered, average sensing, RMS calibrated)

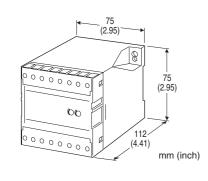
Functions & Features

- Converting an alternating voltage from a potential
- (voltage) transformer into a standard process signal
- Minimum ripple
- No auxiliary power source required
- Isolation up to 2000 V AC
- High-density mounting

Typical Applications

• Centralized monitoring and control of power line and power supply voltages measured at switch boards

• Monitoring abnormal voltage drops for detecting overload



MODEL: LPNA-[1][2][3]

ORDERING INFORMATION

Code number: LPNA-[1][2][3]

- Specify a code from below for each of [1] through [3]. (e.g. LPNA-55/Q)
- Specify the specification for option code /Q (e.g. /C01/S01)

[1] INPUT

Voltage 5: 0 - 150 V AC (used within 90 - 150 V) 6: 0 - 300 V AC (used within 180 - 300 V)

[2] OUTPUT

Current G: 0 - 1 mA DC (Load resistance 5000 Ω max.) Voltage 3: 0 - 1 V DC (Load resistance 2000 Ω min.) 4: 0 - 10 V DC (Load resistance 20 k Ω min.) 5: 0 - 5 V DC (Load resistance 10 k Ω min.)

[3] OPTIONS

blank: none

/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to our web site.) /C01: Silicone coating /C02: Polyurethane coating /C03: Rubber coating TERMINAL SCREW MATERIAL /S01: Stainless steel

GENERAL SPECIFICATIONS

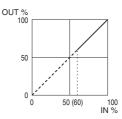
Construction: Stand-alone; terminal access at the front Connection: M3.5 screw terminals (torque 0.8 N·m) Screw terminal: Nickel-plated steel (standard) or stainless steel Housing material: Flame-resistant resin (black) Isolation: Input to output Input waveform: Sine wave Overrange output: 60 – 120 % at 0 – 5 V Span adjustment: 95 to 105 % (front)

INPUT SPECIFICATIONS

Frequency: 50 or 60 Hz Input burden: 2 VA Overload capacity: 150 % of rating for 10 sec., 120 % continuous Operational range: 60 – 120 % of rating

OUTPUT SPECIFICATIONS

OPERATION DIAGRAM



Note: The described accuracy is not assured within 0-60% of the rating, though output signal exists.

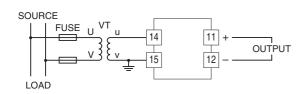
INSTALLATION

Operating temperature: -10 to +55°C (14 to 131°F) Operating humidity: 30 to 85 %RH (non-condensing) Mounting: Surface or DIN rail Weight: 200 g (0.44 lb)

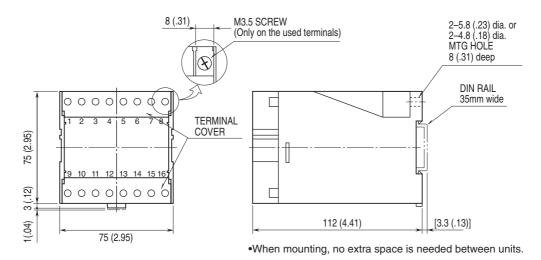
PERFORMANCE in percentage of span

Accuracy: $\pm 0.5 \%$ (at 23°C $\pm 10°$ C or 73.4°F $\pm 18°$ F, 45 - 65 Hz) Response time: ≤ 2 sec. (0 - 100 % $\pm 1 \%$) Ripple: 1 %p-p max. Insulation resistance: $\geq 100 M\Omega$ with 500 V DC Dielectric strength: 2000 V AC @1 minute (input to output to ground) Impulse withstand voltage: 1.2 / 50 µsec., $\pm 5 \text{ kV}$ (input to output or ground)

CONNECTION DIAGRAM

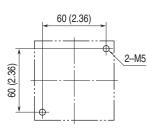


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]

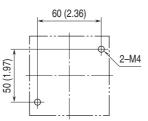


MOUNTING REQUIREMENTS unit: mm [inch]

■ M5 SCREWS



■ M4 SCREWS



Specifications are subject to change without notice.

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